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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/037,670	01/03/2002	Eliel Louzoun	42390P11425	8281
8791 7	590 01/19/2006		EXAM	INER
BLAKELY SOKOLOFF TAYLOR & ZAFMAN 12400 WILSHIRE BOULEVARD			AUVE, GLENN ALLEN	
SEVENTH FL			ART UNIT	PAPER NUMBER
LOS ANGELE	ES, CA 90025-1030		2111	

DATE MAILED: 01/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		10/037,670	LOUZOUN ET AL.		
		Examiner	Art Unit		
		Glenn A. Auve	2111		
The Period for Rep	MAILING DATE of this communication ap ly	opears on the cover sheet with the o	correspondence address		
WHICHEVE - Extensions of after SIX (6) N - If NO period fe - Failure to repl Any reply rece	NED STATUTORY PERIOD FOR REP ER IS LONGER, FROM THE MAILING I time may be available under the provisions of 37 CFR 1 CONTHS from the mailing date of this communication. or reply is specified above, the maximum statutory perior y within the set or extended period for reply will, by statu- sived by the Office later than three months after the mail term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tired d will apply and will expire SIX (6) MONTHS from tte, cause the application to become ABANDONE	N. nely filed I the mailing date of this communication. ED (35 U.S.C. § 133).		
Status		•			
1) Respo	Responsive to communication(s) filed on <u>30 November 2005</u> .				
	• • • • • • • • • • • • • • • • • • • •	is action is non-final.			
3)☐ Since					
closed	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of	Claims				
4a) Of 5)⊡ Claim 6)⊠ Claim	(s) <u>1,7-10,15,22-25,27,31-37,44-46,52-</u> the above claim(s) is/are withdr (s) is/are allowed. (s) <u>1,8-10,15,23-25,27,31-37,44-46,53-</u> (s) <u>7,22,52,67,79 and 80</u> is/are objecte	awn from consideration. 55,60,68-70,72-74,77 and 78 is/ar			
8)∏ Claim	(s) are subject to restriction and	or election requirement.			
Application Pa	pers				
· ·	pecification is objected to by the Examir				
	awing(s) filed on is/are: a)□ ac				
	ant may not request that any objection to the	• • • • • • • • • • • • • • • • • • • •	` '		
	cement drawing sheet(s) including the corre		•		
11)∐ The oa	ath or declaration is objected to by the E	examiner. Note the attached Office	Action or form PTO-152.		
Priority under	35 U.S.C. § 119				
a)□ AII 1.□ 2.□ 3.□	wledgment is made of a claim for foreig b) Some * c) None of: Certified copies of the priority documer Certified copies of the priority documer Copies of the certified copies of the pri application from the International Bures e attached detailed Office action for a lis	nts have been received. Its have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	on No ed in this National Stage		
Attachment(s)	erences Cited (PTO-892)	4) Interview Summan	(PTO 413)		
2) Notice of Drai 3) Information D	erences Cited (P10-892) ftsperson's Patent Drawing Review (PTO-948) isclosure Statement(s) (PTO-1449 or PTO/SB/08 //Aail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:			

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DETAILED ACTION

1. It is noted that the examiner contacted applicant's attorney on 9 January 2006 in order to get approval for an examiner's amendment to the claims. Those changes were to claim 27, line 3 in order to correct an antecedent basis problem in that "the first requester" would be changed to just "the requester" and the dependency of claims 31 and 44 would be corrected. After further consideration and search, however, a new prior art reference has been discovered which is being applied to the claims as set forth below. Therefore, the formal examiner's amendment is not being entered to the claims at this time. Applicant should make the noted corrections in any amendment to the claims, if they are still applicable, in response to this Office action. Although they are not being formally made by examiner's amendment, the claims have been examined in anticipation of such amendments being made.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112: The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claim 25 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 25 is rejected based on lack of positive antecedent basis of "the shared resource" on lines 2-3,4, and 7.

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Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1,8-10,15,23-25,27,31-37,44-46,53-55,60,68-70,72-74, and 77-78 are rejected under 35 U.S.C. 102(e) as being anticipated by Snyder et al., U. S. Pat. No. 6,745,274 B1.

As per claim 1, Snyder shows a method comprising receiving from a first requester a request to write an identifier of the first requester to a set-by-write register that indicates if a component is available, the request comprising the identifier of the first requester (col.5, lines 12-15); determining, in response to receiving the write request from the requester, whether the component is available; and replacing, if the component is available, contents of the register indicating that the component is available with the identifier of the first requester to reduce access to the component and to permit access to the component by the first requester (fig.6 and col. 7, line 56 – col.8, line 30). Snyder shows all of the steps recited in claim 1.

As for claim 8, the argument for claim 1 applies. Snyder also shows that determining whether the component is available comprises determining based on an external indicator that the component is available (col.8 as noted above). Snyder shows all of the steps recited in claim 8.

As for claim 9, the argument for claim 8 applies. Snyder also shows that the external indicator comprises a flag (col.6, lines 3-10). Snyder shows all of the steps recited in claim 9.

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As for claim 10, the argument for claim 1 applies. Snyder also shows receiving, from the first requester upon completion of access to the component by the first requester, a value indicating that the shared resource is available to replace the contents of the register (fig.6). Snyder shows all of the steps recited in claim 10.

As per claim 15, Snyder shows a method comprising receiving from a first requester a request to write an identifier of the first requester to a set-by-write register that indicates if a component is available, the request comprising the identifier of the first requester (col.5, lines 12-15); determining, in response to receiving the write request from the requester, whether the component is available; prohibiting accesses to the component by one or more additional requesters; replacing, if the component is available, contents of the register indicating that the component is available with the identifier of the first requester to reduce access to the component and to permit access to the component by the first requester; and allowing the first requester to indicate that the component is available (fig.6 and cols. 7-8 as noted above). Snyder shows all of the steps recited in claim 15.

As for claim 23, the argument for claim 15 applies. Snyder also shows that determining whether the component is available comprises determining based on an external indicator that the component is available (col.8). Snyder shows all of the steps recited in claim 23.

As for claim 24, the argument for claim 23 applies. Snyder also shows that the external indicator comprises a flag (col.6). Snyder shows all of the steps recited in claim 24.

As for claim 25, the argument for claim 15 applies. Snyder also shows receiving from the first requester a request to write a value indicating that the shared resource is available; determining, because of receiving the value indicating that the shared resource is available, that access to the component has been increased; and replacing the contents of the register with the

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value indicating that the shared resource is available (fig.6). Snyder shows all of the steps recited in claim 25.

As per claim 27, Snyder shows a method of obtaining access to a shared resource comprising receiving a request to write a second value that comprises an identifier of a requester to a register, the request comprising the identifier of the requester; changing a first value to the second value in response to the request to write to the register if the register detects that the first value indicates that the shared resource is available; and limiting access to the shared resource (as noted above in fig.6 and cols.5,7, and 8). Snyder shows all of the steps recited in claim 27.

As for claim 31, the argument for claim 27 applies. Snyder also shows reading the register to determine that the register contains the identifier (cols. 7-8). Snyder shows all of the steps recited in claim 31.

As for claim 32, the argument for claim 27 applies. Snyder also shows that the shared resource comprises a peripheral device in a computer system and the peripheral device contains the registers (col.3, line 49 – col.4, line 7). Snyder shows all of the steps recited in claim 32.

As for claim 33, the argument for claim 27 applies. Snyder also shows receiving from the register the first value indicating that the shared resource is available; accessing the shared resource; and changing upon completion of access to the shared resource, the second value to a third value increasing access to the shared resource (fig.6 and cols. 7-8). Snyder shows all of the steps recited in claim 33.

As for claim 34, the argument for claim 33 applies. Snyder also shows that changing the second value to the third value comprises writing the third value to the register (fig.6 and cols. 7-8). Snyder shows all of the steps recited in claim 34.

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As for claim 35, the argument for claim 34 applies. Snyder also shows that the first value, the second value, and the third value comprise variables (fig.6 and cols. 7-8). Snyder shows all of the steps recited in claim 35.

As for claim 36, the argument for claim 35 applies. Snyder also shows that the first and third values comprise the same variable (fig.6 and cols. 7-8). Snyder shows all of the steps recited in claim 36.

As per claim 37, Snyder shows a method comprising executing by a process a request from a requester to write an identifier of the requester, the request comprising the identifier of the requester; determining by a register, in response to the request, whether a first indicator allowing access to a shared resource is present in the register; changing by the register if the first indicator is present, the first indicator to a second indicator comprising the identifier of the requester and reducing access the shared resource; sending by the register the first indicator to the process; determining by the process receipt of the first indicator; using by the process the shared resource; and replacing by the process the second indicator with a third indicator increasing access to the shared resource (as noted above in fig.6 and cols.5,7, and 8). Snyder shows all of the steps recited in claim 37.

As for claim 44, the argument for claim 37 applies. Snyder also shows that replacing the second indicator with the third indicator comprises writing the third indicator to the register (as noted above in fig.6 and cols.5,7, and 8). Snyder shows all of the steps recited in claim 44.

As for claim 45, the argument for claim 44 applies. Snyder also shows that the first indicator and the third indicator comprise the same indicator (as noted above in fig.6 and cols.5,7, and 8). Snyder shows all of the steps recited in claim 45.

As for claims 46,53-55,60, and 68-70, the arguments set forth above for claims 1,8-10,15, and 23-25 generally apply. The claims in this group consist of "article of manufacture"

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claims where the article comprises a machine accessible medium including instruction sequences that when executed cause a machine to perform the steps recited in the earlier method claims. Since Snyder is directed to a computer system and a process for using semaphores where methods and instructions are used to control the semaphores, the same portions set forth above for the method claims apply to these article of manufacture claims.

As per claim 72, Snyder shows an apparatus comprising a resource; a storage area in the resource; a first value in the storage area, which the storage area changes to a second value that comprises an identifier of a requester in response to a request from the requester to write the identifier of the requester that is included in the request to the storage area; and the second value in the storage area (as noted above in fig.6 and cols.5,7, and 8). Snyder shows all of the elements recited in claim 72.

As for claim 73, the argument for claim 72 applies. Snyder also shows that the resource comprises a peripheral device in a computer system (col.3, line 49 – col.4, line 7). Snyder shows all of the elements recited in claim 73.

As for claim 74, the argument for claim 72 applies. Snyder also shows that the storage area comprises a register (as noted above in fig.6 and cols.5,7, and 8). Snyder shows all of the elements recited in claim 74.

As for claim 77, the argument for claim 72 applies. Snyder also shows that the first value indicates that the resource is available (as noted above in fig.6 and cols.5,7, and 8). Snyder shows all of the elements recited in claim 77.

As for claim 78, the argument for claim 72 applies. Snyder also shows that the second value reduces access to the resource (as noted above in fig.6 and cols.5,7, and 8). Snyder shows all of the elements recited in claim 78.

Allowable Subject Matter

5. Claims 7,22,52,67,79, and 80 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

6. Applicant's arguments, see pages 10-14, filed 30 November 2005, with respect to the rejections of the claims under 35 USC §§101,102, and 103 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Snyder as set forth above.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Glenn A. Auve whose telephone number is (571) 272-3623. The examiner can normally be reached on M-F 8:00 AM-5:30 PM, every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on (571) 272-3632. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Glenn A. Auve Primary Examiner Art Unit 2111

gaa 17 January 2006